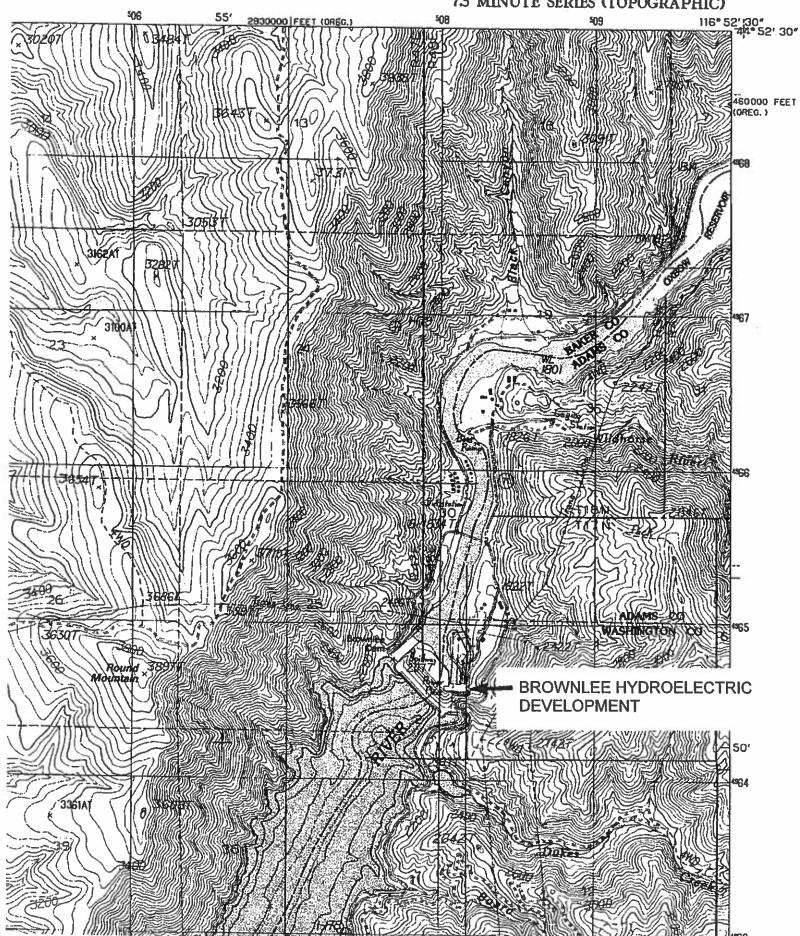
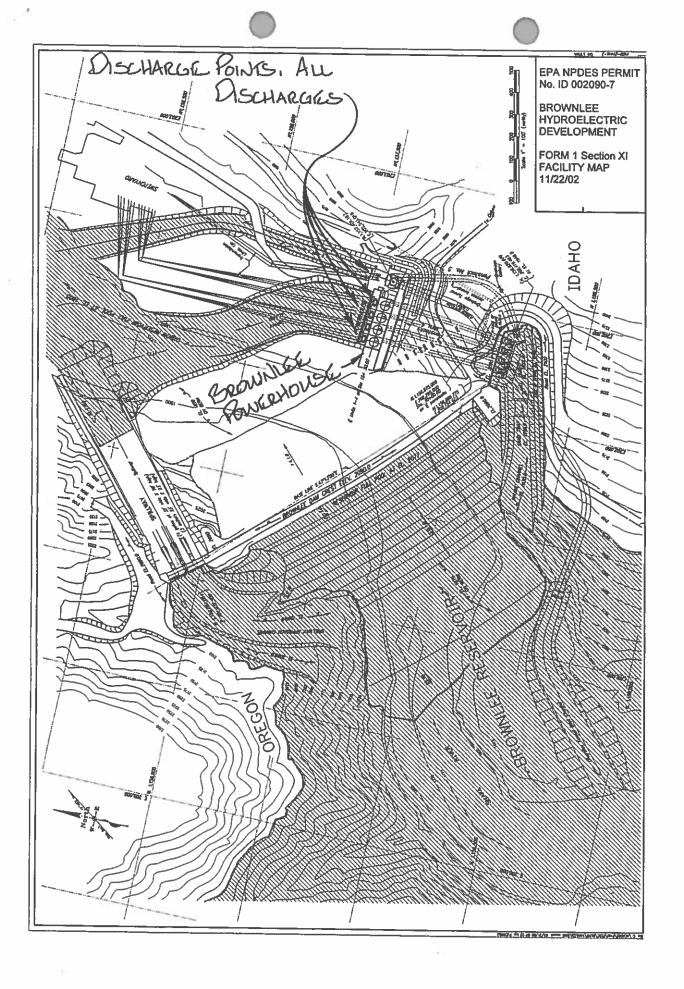
BROWNLEE DAM QUADRANGLE OREGON · IDAHO 7.5 MINUTE SERIES (TOPOGRAPHIC)





Please type or print in	the unshaded areas		py from Item 1 of Form		rm Approved. OMI	B No. 2040-0086
Form	STREET STREET	- 1 874 (Alc 1 / 1) (F 1 / 1 Alc 1	2090-7		proval expires 5-31	
NPDES I. Receiving Waters	-1 / rac	cilities Which	Do Not Dis	charge P	rocess W	astewater
Alexander Village Park	A COMPANY OF THE PROPERTY OF	de and longitude, and	Acres de la companya			
Number (list)	Latitude Deg Min Sec De	Longitude Receiving	g Water (name)	iving water(s).	
001 - 005 4	4 50 13 11	6 53 50 SNAKE	RIVER		-	
I. Discharge Date (If	a new discharger, the	e date you expect to begin	discharging)			
II. Type of Waste				- S		-
A. Check the box(es) in Sanitary Waste:	rdicating the general	type(s) of wastes discharg	ed.	of the second	onprocess	order of the
		ist them here. Briefly desc				
V 548 Ob.						
V. Effluent Character		Total Andrews	W 18 8 8 7			1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
B. New Discharge	ACS - Provide estima	ements for the parameters ates for the parameters li neasurements taken, provi			A STATE OF THE STA	the permitting
Pollutant or Parameter		(1) Maximum Daily Value Include units!	(2) Average D Value (last)	veari	(3) Number of Measurements	(or) (4) Source of Estimate
A SECTION OF	Mass	Concentration	(include un	Concentration	Taken	(if new
Blochemical Oxygen Demand (BOD)				CORCENIUSCOTT	(last year)	discharger)
Total Suspended Solids (T						
Fecal Coliform (if believed present or if sanitary wast discharged)	ite is					
Total Residual Chlorine (if chlorine is used)						
Oil and Grease		10 mg/L		10 mg/L		Nat'l Std
'Chemical oxygen demand COD)	4					,
Total organic carbon (TO)	C)					
Ammonia (as N)						
ischarge Flow	Value 16	Value 16 MGD		2 MGD	12	
H (give range)	Value 6.0	- 9.0	8.2	s.v.	12	
amperature (Winter)	Inf	low temp +6 ∘c		16°C	6	
omperature (Summer)	In	flow temp +6 °c		20°C	6	
If noncontact cooling water						

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal?		
If yes, briefly describe the frequency of flow and duration.	Yes	No
		6
VI. Treatment System (Describe briefly any treatment system(s) used or to be used)		
		
VII. Other Information (Optional)	•	
Use the space below to expand upon any of the above questions or to bring to the attention of should be considered in establishing permit limitations. Attach additional sheets, if necessing the should be considered in establishing permit limitations.	the reviewer	any other information you feel
positional sheats, it necess	агу.	
=		
VIII. Certification		
I certify under penalty of law that this document and all attachments were prepared under my a system designed to assure that qualified personnel properly gather and evaluate the inform person or persons who manage the system, or those persons directly responsible described.	direction or s	upervision in accordance with
person or persons who manage the system, or those persons directly responsible for gathering is to the best of my knowledge and belief, true, accurate, and complete is a system to the best of my knowledge and belief, true, accurate, and complete is a system to the best of my knowledge and belief, true, accurate, and complete is a system to the best of my knowledge and belief, true, accurate, and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief, true, accurate and complete is a system to the best of my knowledge and belief.	ation submitt Tthe informati	ed. Based on my inquiry of the on the information submitted
is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there is information, including the possibility of fine and imprisonment for knowing violations.	ere significant	penalties for submitting false
A. Name & Official Title		1995 - 1995 - 1995 -
Darwin D. Pugmire, Manager, Power Production		B. Phone No. (area code & no.)
		& no.) 208-388-2553
C. Signature		D. Date Signed
X). V		4-18-03
EPA Form 3540-2E (8-90		7-10-03

	_						
Please type or print in th	ne unshaded	areas only		ber <i>(copy from Item 1 ol</i> 002090~7		orm Approved. OM pproval expires 5-3	B No. 2040-0086
2E ⊕E	PA	Facili [.]	SPACE AND SECTION	ich Do Not I		the same of the sa	
I. Receiving Waters			ID DAYS II.		h jih ke ing pada	100033 11	datewate
For this outfal	l, list the k	atitude a	nd longitud	e, and name of the	receiving water	4 7 4 9	7
Outfall Number (list)	Latitude	Lon		eceiving Water (name)	receiving water	5].	
006 44	50 13	116 5	53 50 8	NAKE RIVER			
II. Discharge Date (If a	new discharg	ger, the dat	e you expect t	o begin discharging)			
III. Type of Waste		900	200 Z				
B. New Dischargers	— Provide m		A STATE OF THE PARTY OF THE PARTY.	ameters listed in the left neters listed in the left- n, provide the source of			the permitting
Pollutant or Parameter		Max Daily	(1) dimum / Value	Aver	estimated values (se (2) age Daily	e instructions).	(or) (4)
	and the second	Mass	de units) Concentrat	(incl	ude units)	Measurements Taken	Estimate (if new
Biochamical Oxygen Demand (BOD)				Mass	Concentration	(last year)	dischargeri
Total Suspended Solids (TSS)						
ecal Coliform (if believed wesent or if sanitary waste lischarged)	is						
otal Residual Chlorine (if chlorine is used)							
Oil and Grease	7		10 mg/L		10 mg/L	4, 1/qtr	Natl Std
Chemical oxygen demand COD)						1, 2, 122	Mac1 Bed
Total organic carbon (TOC)							
mmonia (as N)							
scharge Flow	Value 0	.6 MGD	(see S.V	II) 0.2	24 MGD	12	100 100 100 100 100 100 100 100 100 100
l (give range)	Value	6.0 - 9		8.2			
emperature (Winter)		Inflor	v temp +6		12 °c	6	
mperature (Summer)			temp +6	8 8 6 7 7	16 ∘c	6	

*If noncontact cooling water is discharged

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal?		
If yes, briefly describe the frequency of flow and duration.	Yes	XX No
VI. Treatment System (Describe briefly any treatment system(s) used or to be used)	To III E	
a a		
VII. Other Information (Optional)		The second second
Use the space below to expand upon any of the above questions or to bring to the attention of the should be considered in establishing permit limitations. Attach additional sheets, if necessary	ne reviewer: v.	any other information you feel
Discharge No. 006 is the pumped discharge from the Units $1-4$ powerhouse sump. (The	100	n connected nowerhouses
at Brownlee. The first powerhouse, containing turbine-generator units 1-4, was construct	led with the	dam between 1955 and
1959. The second powerhouse, containing Unit 5, was constructed between 1976 and 1 leakage from the upstream reservoir through the dam into the powerhouse, the leakage i	980.) The	sumps collect all of the
downstream river, leakage from the turbine shaft packing, from the penstock couplings, a	and from th	e draft tube drains.
All of the flow into the sump is initially uncontaminated reservoir water. Although there is	opportunit	v for contamination of the
sump water via the plant floor drains and turbine pits, the risk of a significant amount of c	ontaminan	t entering the plant sump is
minimal. Additionally, the sump contains oil sensors which disable the discharge pumps accumulation in the sump.	in the ever	nt of an oil spill or
A relatively high discharge allowance is proposed for the Units 1 – 4 sump because there		de roben des floresterres et 15.5
sump is much greater than the average. When a turbine is out of service for maintenance	e or repair	s the leakage into the
dewatered penstock, turbine spiral case, and draft tube is discharged via the plant sump.	This leak	age, which comes both from
the reservoir above the spiral case, and from the draft tube gate on the outlet end of the the typical leakage into the sump. Please note that higher sump flows do not result in an	draft tube, v greater r	can be multiples higher than
VIII. Certification	y greater p	
The second secon	PASSES AND SECTION	
I certify under penalty of law that this document and all attachments were prepared under my d a system designed to assure that qualified personnel properly gather and evaluate the information of the control of the c		
is to the best of my knowledge and belief, true, accurate, and complete, I am every they there are	the independent	the state of the s
Information, including the possibility of fine and imprisonment for knowing violations. A. Name & Official Title	~ vigimitiali	. penanies for submitting faise
	76 VC	B. Phone No. (area code & no.)
Darwin D. Pugmire, Manager, Power Production		208-388-2553
C. Signature		D. Date Signed
FPA Form 2540 of feature		4-18-03
EPA Form 3510-2E (\$490)		Page 2 of

Please type or print in th	he unshaded a	Fanc only	EPA ID Number	(copy from Item 1 of	f Form 1)	Form Approved. OME	B No. 2040-0086
Form	DESCRIPTION OF THE	1000 000		002090-7	100	Approval expires 5-31	1-92.
2E SE	PA F	aciliti	es Whic	h Do Not	Discharge	Process Wa	actewater
APRIL TIMES OF STREET	GARDANIA RUMANA	MANUAL TOWNS	No. of Contract of				451611415.
For this outfal	I, list the lat	itude and	d longitude, a	and name of the	receiving water	rie)	
Outfall Number (list) Deg	Latitude	Longit Deg Mir	itude Recei	iving Water (name)		[3].	
007 44		116 53	3 50 SNA	AKE RIVER	Act		
I. Discharge Date (II a I	16W discharyer	the date y	ou expect to be	gin discharging)			
II. Type of Waste A. Check the box(es) indi	icating the pen	oval tyne(s)	-f -vector disci	and a second			
Sanitary Wastes 3. If any cooling water ac	Restaura	ant or Calerar	ein Manaa		Water XX Waste		5 Power
V. Effluent Characteris A: Existing Sources authority (see insti B. New Dischargers authority, Instead	— Provide mea tructions).	otionatan fa-	A Company of the Company				the permitting
authority. Instead	of the number (of measure	ments taken, pr	rs listed in the left- rovide the source of	hand column below estimated values (s	i, unless waived by t ee instructions).	he permitting
Pollutant or	\$ 1	(1) Maximu	num .		(2)	(3) (0	(or) (4)
Parameter	best in the	Daily Va (include u	alue units)	Value	erage Daily re (last year) rude units)	Number of Measurements	Source of Estimate
Blochemical Oxygen Demand (BOD)	Mas	and the second second second	Concentration	Mass	Concentration	Taken (last year)	(if new discharger)
otal Suspended Solids (TSS	eı eı						
ecal Coliform (if believed resent or if sanitary waste)	12 m						
ischarged)		-					
hlorine is used)		-					
Chemical oxygen demand	<i>X</i>	_	10 mg/L				Natl Std.
300)							
Total organic carbon (TOC)	ĮÞ.				5		
mmonia (as N)							
		GD (see	s. VII)	0.05 1	<u></u>	12	
(give range)	Value	Value			M(2)}	14	
	6.	6.0 - 9.0		8.2		10	
mperature (Winter)		100	temp +6 °c		s.u.	12	
	1	Inflow (temp +6 °c	С	S.U.	c 6	
mperature (Winter) mperature (Summer) i noncontact cooling water i	I	Inflow (С	s.u.	c 6	

V Except for leaks or callle will the disable of	
V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal? If yes, briefly describe the frequency of flow and duration.	Yes XX No
	at
VI. Treatment System (Describe briefly any treatment system(s) used or to be used)	
iii	
VII. Other Information (Optional)	
Use the space below to expand upon any of the above questions or to bring to the attention of t should be considered in establishing permit limitations. Attach additional sheets, if necessar	he reviewer any other information you feel
Provide the state of the state	Y - [중화경환경기원 기원회
Discharge No. 007 is the pumped discharge from the Unit 5 powerhouse sump. (There a Browniee. The first powerhouse which contains Units 1-4 was constructed with the dam powerhouse was constructed between 1076 and 1000.) The	babuaaa 4055
I POMOTHOUSE Was constructed delivery 1870 SIII 18611 1 TA SHANS collect all of the los	kasa from the continues
through the dam into the powerhouse, the leakage into the powerhouse from the downst shaft packing, from the penstock couplings, and from the draft tube drains.	tream river, leakage from the turbine
All of the flow into the sump is initially uncontaminated reservoir water. Although there is sump water via the plant floor drains and turbine pit, the risk of a significant amount of complying all page 1. Additionally the sump contains all contains which disable the sump contains all contains which disable the sumplements are supplementations.	s opportunity for contamination of the
i minimon regularidatiy, tite suttip contains oii sensors which disable the discharge numbe	s in the event of an oil spill or
accumulation in the sump.	
A relatively high discharge allowance is proposed for the Unit 5 sump because there are	periods when the flow through this
dewatered penstock, turbine spiral case, and draft tube is discharged via the plant supp	ance or repairs, the leakage into the
I will receive an action of the spinal case. And note that the districted and at the	death tube one be woulded a List and
the sphericakage into the sump. Flease note that higher sump flows do not result in ar	ny greater pollution discharge.
VIII. Certification	•
I certify under penalty of law that this document and all attachments were prepared under my cases a system designed to assure that qualified personnel properly gather and evaluate the informal person or persons who manage the system or those persons directly again.	direction or supervision in accordance with
person or persons who manage the system, or those persons directly responsible for gethering is to the best of my knowledge and helief true, accurate, and complete.	tion submitted. Based on my inquiry of the the information, the information submitted
information, including the possibility of fine and imprisonment for knowing violations	re significant penalties for submitting false
A. Name & Official Title	B. Phone No. (area code
Darwin D. Pugmire, Manager, Power Production	& no.J 208-388-2553
C. Signature	
	D. Date Signed
De Vignes	418-03
EPA Form 3510-2E (8-90)	Page 2 of